On the Use of Portable Pyranids for Observing 5/006/60/000/05, 04/024 Points of Second- and Third-order Triangulation B007/B123

truck of the type ZIS-5. Angular measurements made from these portable pyramids in 1959 proved to be as exact as observations made from permanent signals. The best observers are mentioned: Comrade V. N. Sudarikov and V. D. Madakalov. The pyramids described here are far more useful than simple signals. This fact is illustrated by a calculation of savings. At the same time the necessary modifications of the construction of these outer pyramids are pointed out, and a few recommendations are given. There are 3 figures and 1 table.

Card 2/2

KHAIMOV, Z.S., assistent

Analysis of triangulation data by methods of mathematical statistics. Izv. vys. ucheb. zav.; geod. i aerof. no.3: 37-52 '63. (MIRA 17:1)

1. Moskovskiy institut inzhenerov geodezii, aerofotosⁿyemki i kartografii.

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721710003-0

KHAIMGU-MALKOY VIYN

USSR / Mechanical Properties of Crystals and Polycrystalic Compounds.

E-9

Abs Jour

: Ref Zhur - Fizika, No 4, 1957, No 9409

Author

: Aleksandrov, K.S., Khaimov-Mal'kov, V.Ya.

Inst

: Institute of Crystallography, Academy of Sciences USSR

Title

: Rotation of Plane of Polarization of Elastic Shear Waves

Orig Pub

: Kristallografiya, 1956, 1, No 3, 373-374

Abstract

: In a crystal specimen of rock salt, approximately 100 mm long, cut in the [110] direction and twisted about this direction by 90°, there was sent a short ultrasonic pulse of shear waves at a frequency of 1.67 Mc. The receiver of a Y-section from the other end of the specimen received the ultrasonic vibrations passing through the crystal, which after amplification were applied to the plates of an oscillograph. It was shown that the twisted crystal of rock salt rotates the plane of oscillations of the particles in the shear wave (plane of polarization) by an angle that equals approxima-

Card

: 1/2

USSR / Mechanical Properties of Crystals and Polycrystalic

E-9

Compounds.

Abs Jour

: Ref Zhur - Fizika, No 4, 1957, No 9409

Abstract

: tely the angle of twist of the specimen. This phenomenon was observed only for those directions of propagation (twist axis), where there is a difference in the velocities of the two shear waves and where the directions of their displacement are fixed. Similar investigations with rock-salt crystals, beaten out along the cleavages, did not produce the above effect.

Card

: 2/2

AKULENOK, Ye.M.; BAGDASAROV, Kh.S.; KHAIMOV-MAL'KOV, Y.Ye.

Effect of mechanical stirring and ultrasonic vibrations on the process of adsorption of impurities by monocrystair. Kristallografit 2 no.1:197-198 '57. (MIRA 10:7)

1. Institut kristallografit Akademii nauk SSSR. (Grystals--Growth)

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721710003-0

KHAYMOV-MALKOV, V, Y.J.

USSR/Physical Chemistry - Crystals.

B-5

Abs Jour

: Referat Zhur - Khimiya, No 1, 1958, 272

Author

: Kh.S. Bagdasarov, V.Ya. Khaimov-Mal'kov.

Inst

Title

: Some Experimental Data Concerning Formation Nature of

Etching Figures in Ultrasonic Field.

Orig Pub

: Kristallografiya, 19;7, 2, No 2, 309-310

Abstract

: Whiel studying the ca gures on the NaCl cry .uríace during ultrasonic irra-strength of NaCl crystals in solution (sic!) at an ultrasonic irradiation of the frequency of 22 kilocycles, and the absence of this effect, if the frequency had been 717 kilocycles. Both these phenomena are explained by the formation of microfissures, called cavitation, on the crystal surface, which serve as "germs" of etching figures.

Card 1/1

and Creptallography AS USSE

AUTHOR: Khaimov-Mal'kov, V.Ya. SOV/70-3-4-14/26

TITLE: On the Question of the Growth of Crystals in Forous Media

(K voprosu o roste kristallov v poristykh sredakh)

PERIODICAL: Kristallografiya, 1958, Vol 3, Nr 4, pp 488-493 (USSR)

ABSTRACT: The growth of crystals in porous media is of wry great practical importance in, for example, the freezing of soil, the formation of gypsum in clay, the setting of cement, etc. The crystallisation pressure for growth from solution is given by:

 $\pi = k\pi v^{-1} \log c/c_0$

and from a melt by:

 $\mathcal{H} = dT Q/T_{o}v$,

where Q is the heat of crystallisation, T_0 is the melting point, dT is the super-cooling, C/C_0 is the supersaturation, v is the specific volume. These derive from Thomson's expression. Experiments were carried out in silica gel where the pore size is about

Cardl/3

SOV/70-3-4-14/26 On the Question of the Growth of Crystals in Porous Media

> 4. 10⁻⁷ c. Chrome alum arystals were grown in the gel and exemination showed that the crystals do not actually penetrate the gel; secondly, that the crystals push the gel away, straining it and sometimes producing cracks and. thirdly, that these cracks indicate the maximum strains to occur at the points of the crystals. Pyramidal forms of the crystals tend to predominate. Nail crystals growing on the surface of a gel were also examined. They appeared to be columnar with piles of platy crystals growing mushroomwise on their tops. The crystallisation pressure was measured. It is concluded that the growth of crystals in a porous medium is satisfactorily explained by the formulae quoted. Acknowledgments to Academician A.V. Shubnikov, N.N. Sheftal'

Card 2/3

507/70-3-4-14/26

On the Question of the Growth of Crystals in Porous Media.

and to A.A. Chernov. There are 14 figures and 10 references, 8 of which are

Soviet and 2 German.

ASSOCIATION: Institut kristallografii AN SSSR

(Institute of Crystallography of the Ac.Sc.USSR)

April 25, 1958 SUBMITTED:

Card 3/3

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721710003-0"

KHAIMOV-MAL'HOV, V.Ya., Cand Phys Math Sci -- (diss) "Study of crystallization pressure. (Pressure of the crystal and the phenomenon of self-purifying)." Mos, 1959, 12 pp (Inst of Crystallography of Acad Sci USSR). 150 colies (KL 35-59, 112)

- 11 -

\$/058/62/000/005/069/119 A061/A101

24.7300

Khaimov-Mal'kov, V. Ya.

TITLE:

AUTHOR:

A contribution to the thermodynamics of crystallization pressure

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 5, 1962, 10, abstract 5E83 (V sb.

"Rost kristallov. T. 2", Moscow, AN SSSR, 1959, 5 - 16)

Conclusions from and an evaluation of the thermodynamic conditions TEXT: of phase transition accompanied by the repulsion of foreign particles due to crystallization pressure are presented. A thermodynamic analysis of phase transformation has been made on models to which single-phase pressure has been applied additionally. From the conditions of equilibrium in single-component systems it is concluded that crystallization pressure must rise with the degree of supercooling, practically regardless of the symbol of the repelling crystal face. Under otherwise equal conditions, crystals subjected to elastic stresses display a melting temperature lower than that of unstressed crystals. However, the change of this temperature is independent of the sign of elastic deformation. In cilute solutions, crystallization pressure is independent of the properties of both the sol-

Card 1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721710003-0"

A contribution to the...

a growing single crystal.

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721710003-0

\$/058/62/000/005/069/119 A061/A101 vent and the substance. Crystallization pressure rises with supersaturation. It provides an explanation of the repulsion of foreign particles from the faces of A. Makarevich

[Abstracter's note: Complete translation]

Card 2/2

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s/058/62/000/009/017/069 A006/A101

AUTHOR:

Khaimov-Mal'kov, V. Ya.

TITLE:

The statement of the st On the problem of experimentally determining the magnitude of

crystallization pressure

PERIODICAL: Referativnyy zhurnal, Fizika, no. 9, 1962, 8, abstract 9E59

(In collection: "Rost kristallov. T. 2", Moscow, AN SSSR, 1959,

17 - 25)

The author reproduced experiments to determine crystallization pressure with the aid of various methods, for the purpose of discovering the TEXT: causes of sharp discrepancies in experimental results obtained previously. The conclusion is drawn that experiments made by the Correns, method (G. Correns, W. Steinborn, "Z. Kristallogr.", 1939, v. A101, 117) yield correct results in respect to the order of magnitude. The magnitude of crystallization pressure can not be evaluated from the capture or repulsion of obstacles by growing crystals, since in these phenomena conditions of crystal feed play the decisive

[Abstracter's note: Complete translation]

Yu. Krishtal

Card 1/1

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721710003-0"

SOY70-4-1-20/26

AUTHOR:

Khaimov-Mal'kov, V. Ya.

TITLE:

On the Question of the Growth of Crystals From Systems Containing Impurities (K voprosu o roste kristallov 1z

sistem, soderzhashchikh primesi)

Kristallografiya, 1959, Vol 4, Nr 1, pp 114 - 118 (USSR) PERIODICAL:

ABSTRACT: It is shown experimentally and theoretically that the action of impurities on the change of crystallisation parameters can lead to the operation of a single-phase (crystallisation) pressure equal in magnitude to the osmotic pressure which these impurities set up. According to Raoult's law, the change in boiling or melting point of a solution containing impurities is given by:

 $\Delta T = kT_0^2(C^{I} - C^{II})/q.$

For the growth of crystals it can be put into the form:

$$A T_{\underline{i}} = kT_0^2 (C^{\underline{I}} - C_{\underline{i}}^{\underline{I}})/q ,$$

where:

Card1/4

SOV/70-4-1-20/26 On the Question of the Growth of Crystals From Systems Containing Impurities $\mathtt{C}_\mathtt{i}^\mathtt{II}$ is the concentration of impurities in the i-th growth pyramid; is the heat of crystallisation; is the change in the melting point; is the melting point of the solvent, is Boltzmann's constant and k C^I and C^{II} are the concentrations of impurity in the liquid and solid phases. The crystallisation of alum in the presence of a blue dye (Col.Ind. 518) has been studied. Octahedral growth pyramids contain almost no impurities and remain transparent while the cube-face pyramids have substantially the same concentration of dye as the solution. A pressure can be defined by : $\mathbf{T} = (\mathbf{C}^{\mathbf{I}} - \mathbf{C}^{\mathbf{II}}) \frac{\mathbf{k} \mathbf{T}}{\mathbf{v}^{\mathbf{II}}}$ Card2/4

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On the Question of the Growth of Crystals From Systems Containing Impurities

for an osmotic pressure across a partition where $v^{\rm II}$ is the molecular volume of the pure solvent. If there is a pure solvent on one side then:

$$\pi = CkT/v^{II}$$
.

By a thermo-dynamic argument:

$$\Delta P = kT(C^{I} - C^{II})/(v^{I} - v^{II})$$

which is to be compared with Raoult's law. This was experimentally verified by measuring the rate of growth of alum crystals at various temperatures (from 17.75 - 18.55 °C). The osmotic pressure of the dye was actually measured by the pressure exerted on a mirror of a Michaelson interferometer which caused a slight displacement of the mirror, It is concluded that the pressure should be considered as real. Acknowledgments are made to Academician A.V. Shubnikov and Doctor N.N. Sheftal' for their advice and to A.A. Fotchenkov and Kh.S. Bagdasarov for their help

Card3/4

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721710003-0 TOWNSHIP TO THE PROPERTY OF TH

SOV/70-4-1-20/26 On the Question of the Growth of Crystals From Systems Containing Impurities

There are two tables and 6 Soviet references.

ASSOCIATION: ON: Institut kristallografii AN SSSR (Institute of Crystallography of the Ac.Sc., USSR)

SUBMITTED:

October 13, 1958

Card 4/4

24.7100 77115 SOV/70-4-6-16/31

Khaimov-Mal'kov, V Ya, Perl'shteyn, V. A. AUTHORS:

Concerning the Effect of Furnace Temperature Gradient TITLE:

on the Distribution of an Impurity in a Growing

Crystal

Kristallografiya, 1959, Vol 4, Nr 6, pp 904-907 PERIODICAL:

(USSR)

ABSTRACT: This work was presented at the second conference on

scintillators in 1957, at Khar'kov. If a molten cylindrical sample is cooled at one end (directed crystallization), a divisive effect is possible leading to the concentration of the impurity at one or the other end. The concentration $C_{\mathbf{g}}$ of the

impurity along a length $\mathbf{Z}_{\mathbf{O}}$ of the crystal may be

represented by Eq. (1) if the migration is by convection and by Eq. (2) if by diffusion.

Card 1/8

Concerning the Effect of Furnace Temperature Gradient on the Distribution of an Impurity in a Growing Crystal

77115 sov/70-4-6-16/31

$$C_{\bullet} = kC_{o} \left(1 - \frac{Z_{o}}{L_{o}}\right)^{k-1}, \tag{1}$$

$$C_{\bullet} = \frac{1}{2} C_{0} [1 + \text{orf } V_{\tau} - (1 - 2k) \exp [-4k (1 - k) \tau] \times \times \{1 + \text{orf } [(1 - 2k) V_{\tau}]\} \}.$$
(2)

Here C_0 is the initial concentration of the impurity; k is the coefficient of trapping, equal to C_8/C_{Z_0} (C_{Z_0} being the concentration of the impurity at point Z_0); L_0 is the crystal's length; $T = VZ_0/4D$; V is the rate of crystallization; and D is the diffusion coefficient. Figure 1 represents the above relations for k(1. The purpose of the present work is to confirm the existence of (2) experimentally.

Card 2/8

Concerning the Effect of Furnace Temperature Gradient on the Distribution of an Impurity in a Growing Crystal

77115 COV/70-4-6-16/31

This is of interest in connection with semiconductors

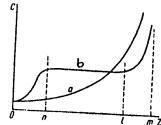


Fig. 1. Distribution of the impurity along the crystal's length: (a) with convection and (b) in the melt.

Card 3/8

and scintillators, due to the presence of the flat segment nl on curve "b," Fig. 1. The effect of the temperature gradient on the impurity distribution was studied on the system KI--TlI, the latter being the

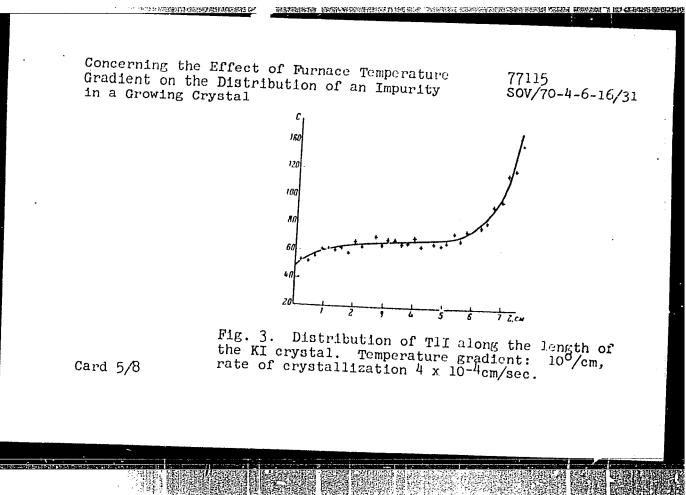
Concerning the Effect of Furnace Temperature Gradient on the Distribution of an Impurity in a Growing Crystal

77115 SOV/70-4-6-16/31

impurity, 0.1 to 1% by wt, and containing T1 204. The crystals were grown by the Stokbarger method. The furnace gradient was varied by varying the position of the heating coil or the rate of heat removal. The concentration of T1I was gaged by the cool of T1204. A temperature gradient of 20 to in Fig. 1. The results with lesser gradients are shown in Figs. 3 and 4. On the basis of the results,

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Concerning the Effect of Furnace Temperature Gradient on the Distribution of an Impurity in a Grewing Crystal

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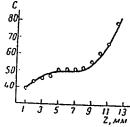


Fig. 4. Distribution of TlI along the length of the KI crystal. Temperature gradient: 100/cm, rate of crystallization 1 x 10-5cm/sec.

conclusions may be drawn. The character of the impurity distribution depends substantially on the temperature gradient. With gradients of about 10°/cm, in the case of KI, the migration is by convection, while for gradients of less than 10°/cm, it is by diffusion. The change from one mechanism to

Card 6/8

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721710003-0"

· [7] - [4]

Concerning the Effect of Furnace Temperature Gradient on the Distribution of an Impurity in a Growing Crystal

77115 SOV/70-4-6-16/31

the other occurs within a narrow range of gradient values, the range depending on the substance being crystallized. The effect of the gradient on the migration mechanism is probably through its effect on the convection and diffusion in the melt. The coefficient k was observed to decrease with increasing gradient and this decrease probably tends toward saturation. The distribution of the impurity along the diameter of a crystal grown under a low gradient was determined and, except for the first cross section (beginning of crystal ization), was found to be nearly uniform, when the distribution along the length is as given in Fig. 3. admit that their proof of the existence of the diffusion mechanism of impurity migration is not conclusive, but they published the results because of its possible practical application. Belyayev, L. M., Sheftal', N.N., Martynov, G. A., and Panova, V. P., are thanked for their assistance. There are

Card 7/8

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721710003-0"

Concerning the Effect of Furnace Temperature Gradient on the Distribution of an Impurity in a Growing Crystal

77115 SOV/70-4-6-16/31

5 figures; and 10 references, 5 Soviet, 2 German, 3 U.S. The U.S. references are: W. G. Pfann, Tras. AIMM, 194, 747, 1952; R. H. Mcfee, J. Chem. Phys., 15, 856, 1947; O. W. Memelink, Philips Res. Repts, 3, 183, 1956.

ASSOCIATION:

Crystallography Institute, Academy of Sciences, USSR (Institut kristallografii AN SSSR)

SUBMITTED:

June 25, 1959

Card 8/8

\$/070/62/007/003/015/026 E132/E460

AUTHORS:

Khaimov-Mal'kov, V.Ya., Zhmurova, Z.I., Bagdasarov, Kh.S., Akulenok, Ye.M.

TITLE:

On the question of the sectorial growth of crystals

PERIODICAL: Kristallografiya, v.7, no.3, 1962, 437-441

TEXT: Certain regularities in the production of macrononuniformities in crystals during their growth from solution are
discussed. The connection between the forms of the growth
pyramids and the conditions of crystallization are examined.
Using the example of alums it is shown that the development of a
sectorial structure is connected with the trapping by the growing
crystal of mechanical impurities and with the inclusion of
structural impurities. The following signs can be used to
diagnose the kinds of defects in crystals. The relative rate of
growth of a face which is being spoilt is, in the case of
structural impurities, significantly decreased (blocking) but in
the case of mechanical impurities it is significantly increased.
In the first case, if the symmetry of the crystal allows it,
the defective face forms the basic shape of the crystal and in

On the question of the sectorial ...

S/070/62/007/003/015/026 E132/E460

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the second case it is tapered out. The degree of spoiling of the growth pyramids (degree of trapping of impurities) decreases with increasing supersaturation for structural impurities but decreases for mechanical impurities. For high concentrations of structural impurities the surface of an affected face has a specific character of peeling flakes. (Mechanical impurities are insoluble particles or colloidal bodies in suspension, structural impurities are ions or dyes in solution which enter the crystal as isomorphous replacements.) There are 8 figures.

ASSOCIATION: Institut kristallografii AN SSSR

(Institute of Crystallography AS USSR)

SUBMITTED: June 28, 1961

Card 2/2

 $\frac{L\ 10331-63}{ES(t)-2-AFFTC/AGD/ESD-3/RADC/AFGC/AFWL--Pr-L--GG/WH/JHB/WG/K/EH/IJP(C)}{ES(t)-2-AFFTC/AGD/ESD-3/RADC/AFGC/AFWL--Pr-L--GG/WH/JHB/WG/K/EH/IJP(C)}$

ACCESSION MR: AP3001285

S/0181/63/005/006/1643/1648

AUTHOR: Manenkov, A. A.; Popova, A. A.; Khaimov-Mal'kov, V. Ya.

16

TITLE: Investigation of crystal-field inhomogeneity in the ruby

82

SOURCE: Fizika tverdogo tela, v. 5, no. 6, 1963, 1643-1648

TOPIC TACS: crystal-field inhomogeneity, ruby laser, EPR-line broadering, trigonal axis dispersion

ABSTRACT: Inhomogeneous EPR-line broadening caused by local inhomogeneities of the crystal field and dispersion of the trigonal axis orientation has been used to study such inhomogeneities in the ruby and their reaction to thermal treatment. The method yielded direct information on the nature of the local crystal field around paramagnetic ions in crystals and the influence of this field on the energy levels of the ions. Relative peak intensity rather than line width was used as a measure of crystal-field inhomogeneity in various 0.0% Cr sup plus 3 ion-concentration samples. Measurements were made with an EPR radio spectroscope operating at 9400 Mc. Small samples (volume approximately 0.5 cm

Card 1/2

· 1975年1974年,在高速电路和高速性影響,在自由的电影电影和能力量的影響和影響。

1975年1974年,第207年,第207年,第207年 | 1975年 |

L 10331-63

ACCESSION NR: AP3001285

sup 3) were shown to contain both local inhomogeneities and trigonal axis dispersion. Annealing at 1850C for several hours caused a considerable decrease in inhomogeneities, but additional annealing over 16 hours produced no further observable decrease. Larger samples suitable for layer applications (rods 1 cm in diameter and 12 to 20 cm in length) were shown to have considerable zoning and disorientation (up to 10 degrees) of the trigonal exis from zone to zone. It is noted that this zoning can affect the directional properties, threshold, and output power of laser emissions. "The authors express their gratitude to A. M. Prokhorov and L. M. Belyayev for useful discussion of the work." Orig. art. has: 11 formulas and 3 figures.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva AN SSSR, Moscow (Physics

SUPMITTED: 28Jan63 DATE ACQ: 01Jul63

ENCL: 00

SUB CODE: 00

NO REF SOV: 001

OTHER: 002

mcs/CA Card 2/2

ACCESSION NR: AP4011484

S/0051/64/016/001/0058/0062

AUTHOR: Gvaladze, T.V.; Konyukhov, V.K.; Prokhorov, A.M.; Khaimov-Mal'kov, V.Ya.; Shipule, G.P.

TITLE: R-absorption lines of ruby

SOURCE: Optika i spektroskopiya, v.16, no.1, 1964, 58-62

TOPIC TAGS: R absorption, R levels, R line luminescence, ruby, optical pumping, lasers, luminescence lifetime

ABSTRACT: Although there have been many investigations of the luminescence diffines of ruby, hitherto there have been no detailed studies of the absorption in the region of these lines. Study of the absorption can yield information on the frequency variation of the absorption coefficient, $\alpha(v)$, and the temperature dependence of $\alpha(v)$ which is indicative of the temperature variation of the matrix element of the dipole moment. In the present work the R-line absorption of ruby (Cr_2O_3) concentration 0.04% by weight) was investigated at 16, 60, and 95°C. The measurements were performed with the aid of a DFS-13 diffraction grating spectrograph (dispersion 4 R/mm) with photographic recording and a DFS-8 grating spectrograph (6 R/mm) with

Card 1/2

ACC. NR: · AP4011484 photoelectric recording. The values of $\alpha(\gamma)$ for the R₁ and R₂-lines are 0.315 and 0.24, respectively, and are virtually temperature independent in the 16 to 95°C temperature range. Reabsorption was found to be negligible under the given conditions. The luminescence lifetimes of the R1 and R2 lines, calculated on the basis of the ; experimental data, are of the order of 2.9 and 4.2-microsec, respectively. The relative intensities of the R luminescence lines are proportional to the populations of the respective levels and inversely proportional to $\Upsilon(R)$. The R_2/R_1 intensity ratio for T = 93°K, derived from the present data, is about 0.43, which is in exact agreement with the experimental value of N.A. Tolstoy, Liu Shun-fu, and M.E. Lapidus (Opt.i spektro., 13, 242, 1962). Orig.art.has: 14 formulas, 2 tables, and 1 figure. ASSOCIATION: none SUBMITTED DATE ACQ: 14Feb64 ENCL: 00 SUB CODE: PH NR REF SOV: 003 OTHER: 005 Card 2/2

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KHAIMOV-MAL'KOV, V.Ya.; BAGDASAROV, Kh.S.; AKULENOK, Ye.M.

Relation between the intensity distribution in a ruby laser and defects in the crystals. Kristallografiia 8 no.6:925-926 (MIRA 17:2)

1. Institut kristallografii AN SSSR.

ZHMUROVA, Z.I.; KHAIMOV-MAL'KOV, V.Ya.; AKULENOK, Ye.M.; BAGDASAROV, Kh.S.

Distribution of an isomorphic impurity in crystals of $Zn(NH_4)_2$ (SO₄)_{2.6}H₂O and K_2 SO₄ during crystallization. Kristallografiia 8 no.6:936-937 N-D'63. (MIRA 17:2)

1. Institut kristallografii AN SSSR.

	ACC NR. AP5025788 SCTE/LF(c) WG/WH SOURCE CODE: UR/0363/65/001/C09/15/21/1525 AUTHOR: Voron'ko, Yu. K.; Kaminskiy, A. A.; Osiko, V. V.; Khaimov-Mal'kov, V. Ya. // ORG: Institute of Crystallography, Academy of Sciences, SSSR (Institut kristallografii (Fizicheskiy institut Akademii nauk SSSR); Physics Institute im. P. N. Lebedev, Academy of Sciences, SSSR TITLE: Investigation of the optical inhomogeneity of CaF ₂ :Dy ³⁺ laser crystals SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 9, 1965, 1521-1525 TOPIC TAGS: laser, solid state laser, laser rod, laser crystal, fluorite, fluorite ABSTRACT: Experiments were performed to determine the effect of different types of optical inhomogeneities on the excitation threshold of CaF ₂ laser rods depend with 0.5% identical conditions and had the same concentration of active impurities. Th. teen tals. Measurements of the excitation threshold, the gradient of the index of refracted from crystal to crystal. These differences were fabricated from the crystion, the local inhomogeneities, and small angle scattering showed that the optical demonstrollable variations in the temperature regime during the growth process and to Card 1/2 LIDC: 516.41'161:518.55
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VORON'KO, Yu.K.; KAMINSKIY, A.A.; OSIKO, V.V.; KHAIMOV-MAL'KOV, V.Ya.

Optical homogeneity of CaF2 - Nd³⁺ laser crystals. Izv. AN
SSSR. Neorg. mat. 1 no.9:1521-1525 S'65. (NIRA 18:11)

1. Institut kristallografii AN SSSR 1 Fizicheskiy institut
imeni Lebedeva AN SSSR.

。2.14年中国的建筑的 阿里斯里因特别理想 "我是我们的强度的现在分词,我们也没有多数的自己的,我们也没有一个人的人们的人们的人们的人们的人们是一个人们的人们

MOLLOV, N.; HAIMOVA, M. [Khaimova, M.]; TSCHERNEVA, P. [Cherneva, P.];
PECIGARGOVA, N. [Pechigargova, N.]; CGNJANOV, I. [Ognianov, I.];
Alkaloids of Aconitum ranunculaefolium. Doklady BAN 17 no.3:
251-254 '64.

1. Vorgelegt von B.Kurtev, korr. Mitglied d. Akademie.

"这一种,我们是我们的现在,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们也没有一种,我们就是我们的人,我们就是我们的人,我们就是

BEROVA, N.; STEFANOVSKY, J. [Stefanovski, 1.]; KUGTOV, B.; CHATHOVA, M. [Khaimova, M.]; MCLLOV, N. [Molov, N.]

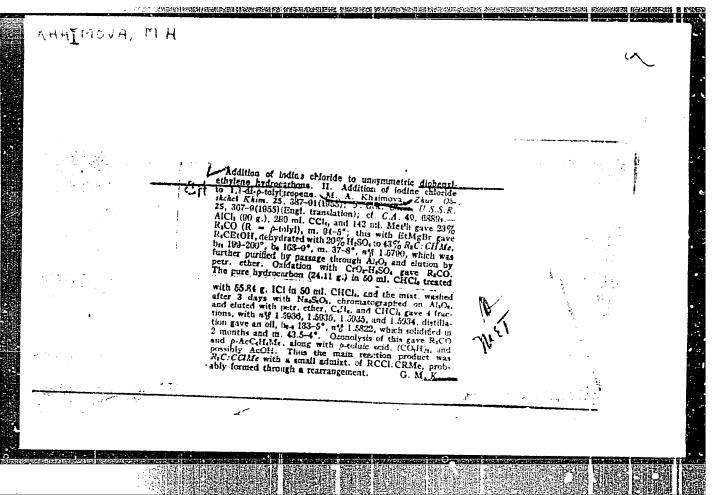
Synthesis and separation of 1-menthy ester of the 3-amino-2,3-diphenylpr are acids, and their duction into optically active 1-amino-1,2-diphenylpropanel. Doklady BAN 17 no.1141-44

KHAIMOVA, M. A., TEMNIKOVA, T. I. and BASKOVA, Z. A.

On the Addition of Iodine Chloride to Diphenylpropylene and Diphenylethylene, page 874, Sbornik statey po obshchey khimii (Collection of Papers on General Chemistry), Vol II, Moscow-Leningrad, 1953, pages 1680-1686.

Chair of the Structure of Organic Compounds, Leningrad State U

KHAIMOVA, M.A.			
KHUT MOALL			
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an entre se la companya de la compa	Addition of loding thioride to L1-dichenvintonene and M. A. Kholmova (Centucud State Inv.). Soorn State Objects Khim. 3, 874-7(1954) 5-10-76-78. Phys. Centucud State Objects Khim. 3, 874-7(1954) - 76-78. Phys. Centucud State Objects Khim. 3, 874-7(1954) - 76-78. Phys. Centucud State Objects Khim. 3, 874-7(1954) - 76-78. Phys. Centucud State Objects Khim. 3, 874-7(1954) - 76-78. Phys. Centucud State Objects Chim. 3, 874-7(1954) - 76-78. Phys. Centucu	1d (***)	
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KHAIMOVA, M.A.; KURTEV, B.Y.

Reactions of some arylated ethylenic hydrocarbons with iodine chloride, and the pinacolin-type rearrangement of their 1-iodo-2-methoxy derivatives. Dokl. AN SSSR 135 no.5:1153-1156 D '60;

1. Institut organicheskoy khimii Bolgarskoy AN. Predstavleno akademikom B.A.Kazanskim.

(Iodine chloride)

(Ethylene)

(Propene)

1.12年後日本

KHAIMOVA, M.A.; KURTEV, B.Y.; BEZUKHANOVA, TS.P.

Production and reactivity of certain arylated β -iodo ethers. Dokl. AN SSSR 143 no.6:1374-1377 Ap '62. (MIRA 15:4)

1. Kafedra organicheskoy khimii Sofiyskogo gosudarstvennogo universiteta, Sofiya, Bolgariya. Predstavleno akademikom B.A.Kazanskim.

(Ethers) (Iodine compounds)

TO A TEXT OF THE PROPERTY OF T

KURLES, I.S., SHAIMOVA, P.L.

budying the behavior of surfaces determined by the Pfaff equation near a point at infinity. Trudy Sam. Gos. un. no.144:49-62 164.

(MIRA 18:9)

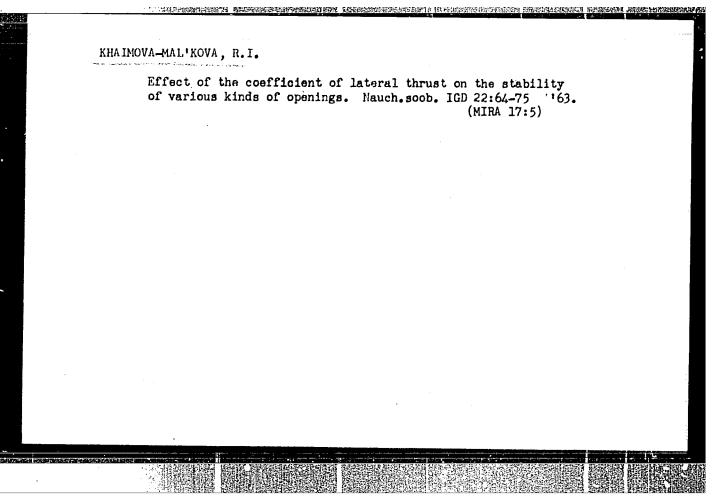
KHAIMOVA, P. L.

Khaimova, P. L. -- "On the Surfaces Determined by the Equations of Pfaff."
Acad Sci Uzbek SSR, Inst of Mathematics and Mechanics imeni V. I.
Romanovskiy, Stalinabad, 1955. (Dissertations for Degree of Doctor of Physicomathematical Sciences)

SO: Knizhnaya Letopis', No. 23, Moscow, pp. 87-104.

KHAIMOVA-MAL'KOVA, R.I.; TRUMBACHEV, V.F., otv. red.; FOLYAKOVA, 2.V., red.

[Methodological mamual on investigating stresses by the optical method] Metodicheskoe rukovodstvo po issledovaniiu napriazhenii opticheskim metodom. Moskva, In-t gornogo dela im. A.A.Skochinskogo, 1963. 66 p. (MIRA 18:4)



,我们就是我们的一个人,我们就是我们的一个人,我们就是这个人,我们也没有一个人,我们就是我们的,我们就是我们的人,我们也不是我们的人,我们就会会会的人,我们就会

MATVEYEV, V.A. (Moskva); TRUMBACHEV, V.F. (Moskva); KHAIMOVA-MAL'KOVA, R.I. (Moskva)

Determining rock deformation allowing for cleavage and stratification in the vicinity of stopes. Izv. AN SSSR. Otd. tekh. nauk.

Met. i topl. no.1:171-179 Ja-F 162. (MIRA 15:2)

(Mining geology)

(Rock pressure)

ACC NR: ATTOGREDY

 (Λ)

SOURCE CODE: UR/0000/66/000/000/0431/0487

AUTHOR: A

Khaimová-kal'kova, R. I.

ORG: none

TITLE: Use of models of optically active material ("agarin") to investigate the nature of rock failure around mine workings

SOURCE: Vsesoyuznaya konferentsiya po polyarizatsienno-opticheskomu metodu issledovaniya napryazheniy. 5th, Leningrad, 1964. Polyarizatsienno-opticheskiy metod issledovaniya napryazheniy (Polarizing-optical method of investigating stresses); trudy konferentsii. Leningrad, Izd-vo Leningr. univ., 1966, 481-487

TOPIC TACS: mining engineering, stress analysis, optic analysis, model

ABSTRACT: Models of variously shaped mine workings (elliptical, circular, rectangular, square, arched, and trapezoidal), with different horizontal to vertical ratios and different values of lateral thrust have been studied by means of optically active material ("agarin"). The "agarin" was prepared from agar-agar (1-5%), glycerin (5%), and distilled water. It was found that failure of elliptical and arched workings with a large vertical axis required a load approximately twice that for trapezoidal and elliptical workings with the horizontal axis greater than the vertical. In openings with a circular form, roof fractures appear first in the middle of the

Card 1/2

ACC NR: AT7002127

roof and are vertical. In workings with flat roofs, the fractures appear near the corners and are curved toward the center of the roof. At a lateral thrust of 0.6, rock failure in arched and trapezoidal openings begins in the side walls at places of greatest normal stress (σ_y) and tangential stress, where tensional stresses are also maximal. Fractures appear parallel to the walls. Destructive loading for circular openings proves to be about the same as for trapezoidal openings at a lateral thrust of 1. Experiments with stratified models were also made, using square openings. With relatively thin layers, the "beds" served somewhat as beams with their tensional stresses, and failure was found to begin generally in the roof. With thicker layers, failure resembles more the type opserved in massive rocks, occurring from the sides. The destructive load declines with increase in thickness of layers. For a ratio of 1:3 (thickness of layer:height of opening), this load is 70% of the destructive load for massive rock. For a ratio of 1:6, the load is but 30% that for massive rock. Orig. art. has: 5 figures and 1 table. (W. A. 101)

SUB CODE: 20, 08/ SUBM DATE: 14Jun66/ ORIG REF: 005/ OTH REF: 002

Card 2/2

KHAIMOVSKAYA, Kh.S.

Work of the food laboratory of the sanitary and epidemiological station of Iaroslavl. Vop. pit. 20 no.6:63-66 N-D '61. (MIRA 15:6)

。 1. 电影响时间,使影响的人,就是影响的人,就是是一个人,就是一个人,就是一个人,就是一个人,就是一个人,就是我们是不是那么一个人,就是我们就是一个人,就是我们

EELKIN, Ya.M., kand.tekhn.nauk; GEKHT, S.I., inah.; KHAIMSKIY, A.M., inah.

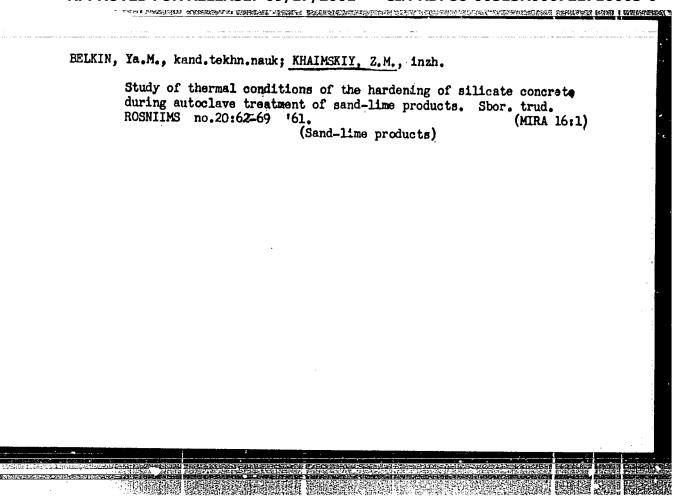
Determining the actual moisture of a lime-sand mixture made with ground unslaked lime. Sbor.trud.ROSNIIMS no.1913-5 '61.

(MIRA 16:1)

(Sand-lime products)

KHAIMSKIY, N.; BRUTMAN, G.; TRRST, A.

The PR-5 voltameter. Radio no.4140 Ap '62. (MIRA 1514)



KHAIMZON, B.I.

Using the phage titer growth reaction in diagnosing dysentery in adults. Zhur, mikrobiol., epid. i immun. 33 no.1:98-99 Ja 62. (MIRA 15:3)

1. Iz Voronezhskogo meditsinskogo instituta.
(DYSENTERY)
(BACTERIOPHAGE)

ALLAKHVERDIBEKOV, G.B., dotsent; KHAIN, A.G., assistent

"Pharmacology" by V.V. Zakusov. Reviewed by G.B. Allakhverdibekov, A.G. Khain. Azerb. med. zhur. no.7:83 J1 '63. (MIRA 17:1)

GOL'BERG, I.K. [deceased]; KHAIN, A.G.

Study of the toric effect of preparations from the Azerbaijanian cyclamen (Primrose family) and their influence on the organs of blood circulation. Azerb.med.shur. no.3:52-56 Mr '60,

(GYCLAMEN--TOXICOLOGY)

(MIRA 13:6)

LILIYENBERG, Dmitriy Anatol'yevich; KHAIN, B.Ye., otv. red.; VOLYNSKAYA, V.S., red. izd-va; GUS'KOVA, O.M., tekhn. red.

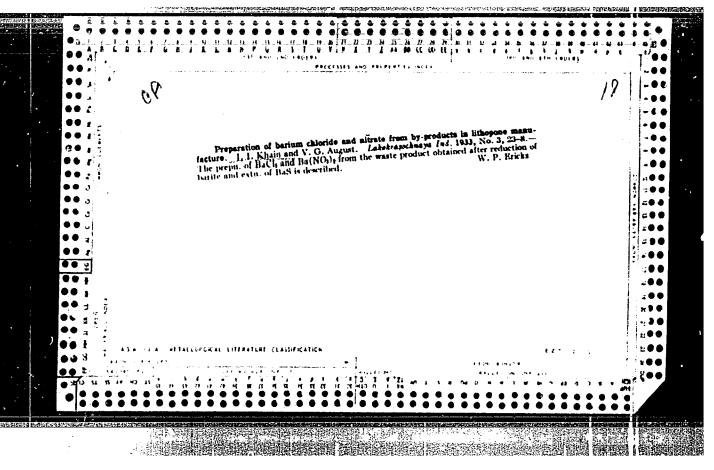
[Relief of the southern slope of the eastern part of the Greater Caucasus] Relief iuzhnogo sklona vostochnoi chasti Bol'shogo Kavkaza. Moskva, Izd-vo Akad. nauk SSSR, 1962. 24,3 p. (MIRA 15:3)

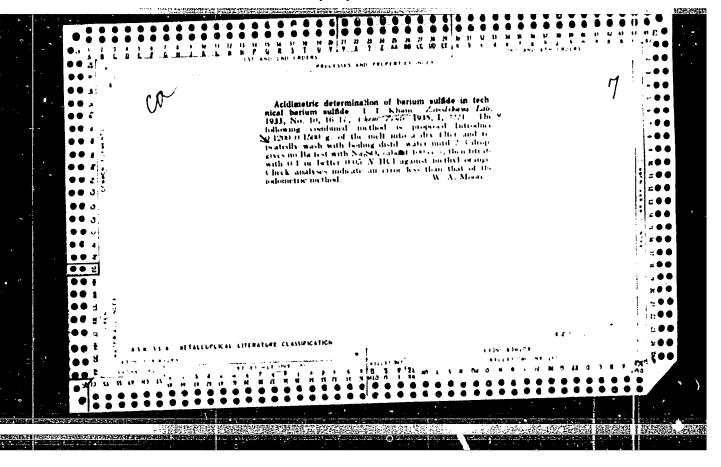
(Caucasus-Landforms)

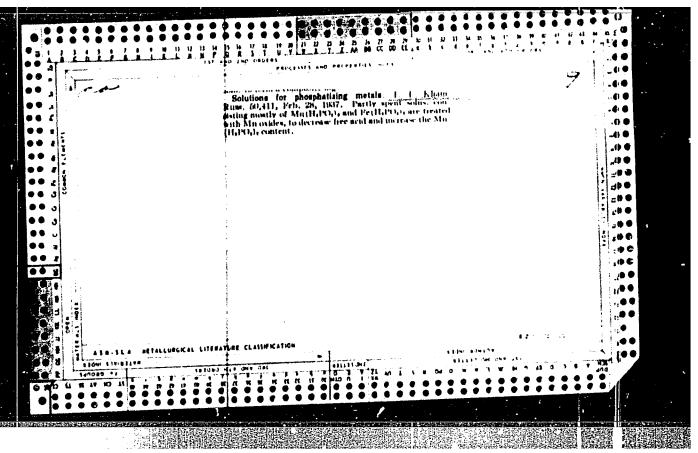
KHAIN, G.Ye.

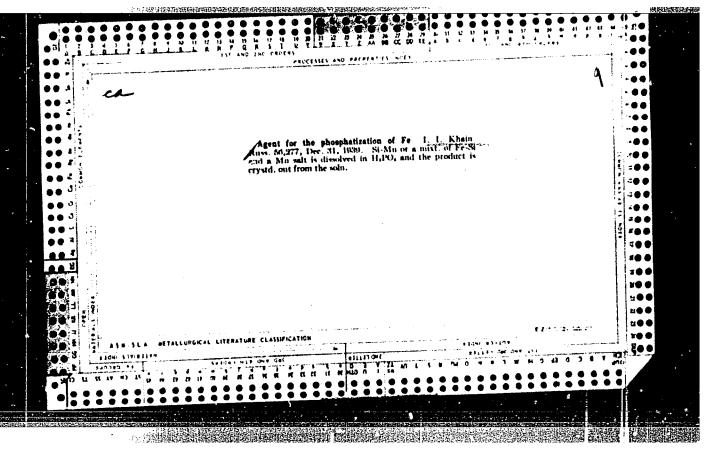
Controlling Botkin's disease. Zhur.mikrobiol.epid. i immun. 29 no.4:25-26 Ap '58. (MIRA 11:4)

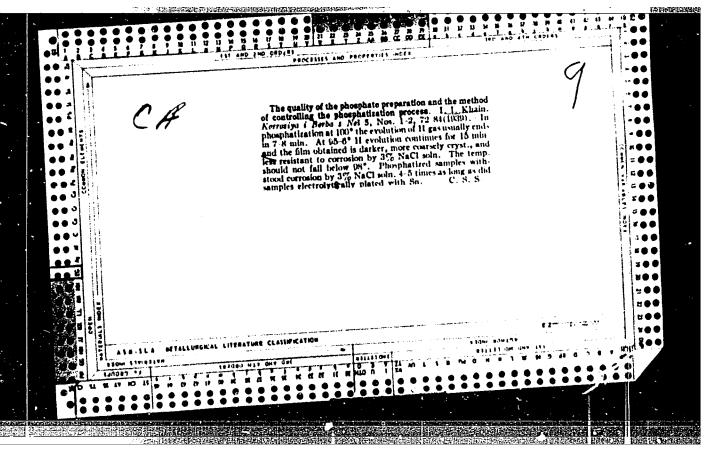
1. Iz Chernovitskogo meditsinskogo instituta.
(HEPATITIS, INFECTIOUS, prevention and control.
(Rus)

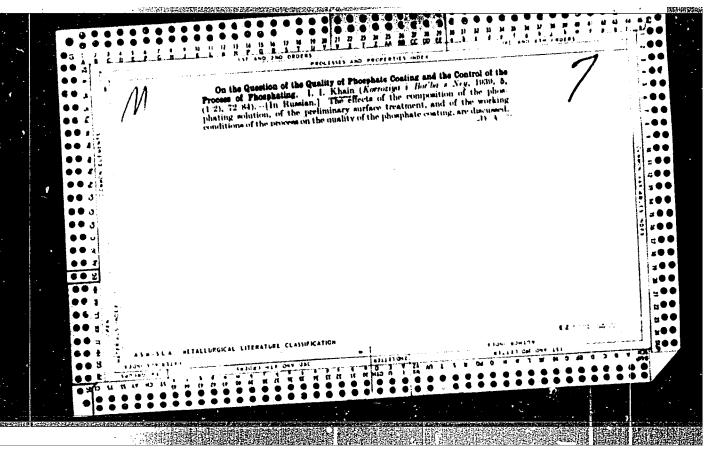


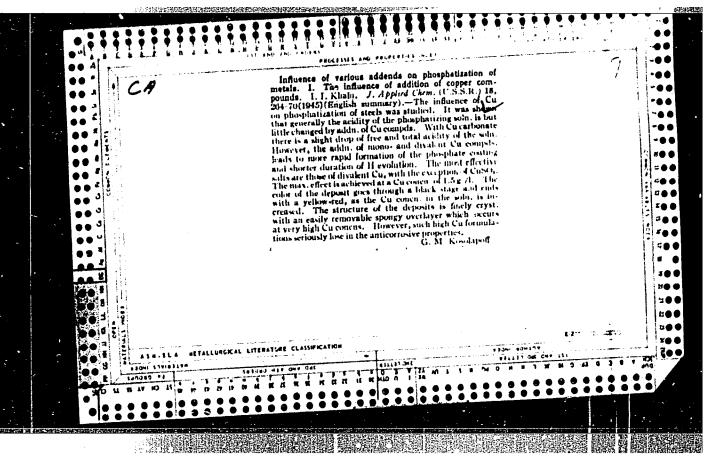


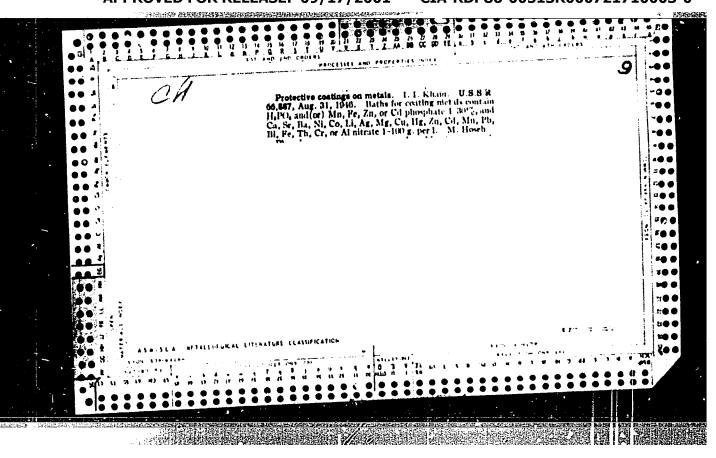


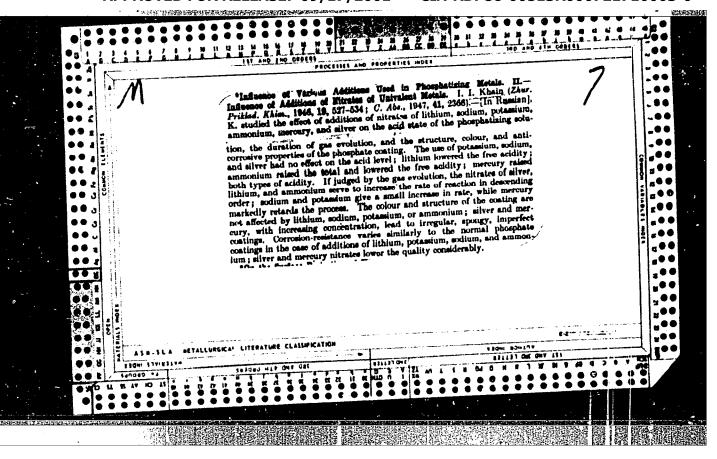












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VAYNER, Ya.V., laurest Stalinskoy premii kandidat tekhnicheskikh nauk;

DASOYAN, M.A., kandidat tekhnicheskikh nauk; DRINBERG, A.Ya.,
laureat Stalinskoy premii doktor tekhnicheskikh nauk, professor;

TARASENKO, A.A., laureat Stalinskoy premii, inzhener; KHAIN, I.I.,
inzhener; BOGORAD, I.Ya., laureat Stalinskoy premii, kandidat
tekhnicheskikh nauk, retsenzent; SNEDZE, A.A., kandidat tekhnicheskikh nauk, retsenzent; YAMPOL'SKIY, A.M., inzhener, retsenzent;
TIKHOMIROV, A.A., inzhener, retsenzent; FEDOT'YEV, N.P., laureat
Stalinskoy premii doktor tekhnicheskikh nauk, professor, redaktor;
GUREVICH, Ye.S., kandidat tekhnicheskikh nauk, redaktor; DLUGOKANSKAYA, Ye.A., tekhnicheskiy redaktor

[Handbook on protective and decorative coatings] Spravochnik po

[Handbook on protective and decorative coatings] Spravochnik po zashchitno-dekorativnym pokrytiiam. Pod red. N.P.Fedotieva.

Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1951. 480 p.

[Microfilm] (MIRA 10:7)

(Protective coatings)

KHAIN, I.I.

AUTHOR:

Khain, I.I., Engineer,

28-6-28/40

TITLE:

On the quality of the Preparation for Phosphate-Coating of Metals (O kachestve preparata dlya phosphatirovaniya metallov)

PERIODICAL:

Standartizatsiya, 1957, # 6, p 72 (USSR)

ABSTRACT:

The "mazhef" salt, which is manganese-iron phosphate as standardized by "FOCT 6193-52"-standard, is of low quality; the phosphate films formed from its solutions have poor anticorrosion

properties and the solutions are quickly enhausted.

The author points to the conditions stipulated in the standard that cause such deficiencies: the iron content is allowed in a range from 0.3 to 3.0%; of manganese - at least 14%; the valency of the phosphoric iron is not indicated; the

content of free acid in the solution is not given.

AVAILABLE:

Library of Congress

Card 1/1

1. Industry-USSR 2. Magenese iron phosphate-Standards

KHAIN, I.I.

32-7-32/49

AUTHOR:

Khain, I. I.

TITLE:

Determination of the Strength and of the Microgeometry of a Phos-

phate Thin Film when Using a Profilograph

(Opredeleniye tolshchiny i mikrogeometrii fosfatnoy plenki s

primeneniyem profilografa)

PERIODICAL:

Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 7, pp. 864 - 866 (USSR)

ABSTRACT:

The profilographic method is based upon the following conditions: A phosphate thin film consisting of p larger number of crystals, which have grown together, and depending on their dimensions, has different strengths and different microgeometrical surface properties. The growth of the crystal, the strength and microgeometry of a phosphate thin film depends on the conditions of phosphatization as well as on the composition of the phosphatizing solution. The microgeometry of the surface is determined by means of optical, optical-mechanical, or mechanical profilemeters. The disadvantages of these devices (microinterferometer, Linniks double microscope) consists in their insufficiently large measuring field. On the other hand, mechanical or optical-mechanical

Card 1/2

KHAIN, I. I., Candidate Tech Sci (diss) -- "Phosphating of steel in the prosence of nitrates". Leningrad, 1959. 13 pp (Min Higher Educ USSR, Leningrad Order of Labor Red Banner Tech Inst im Leningrad Soviet), 150 copies (KL, No 22, 1959, 117)

\$/080/60/033/007/005/020 A003/A001

AUTHOR:

Khain, I. I.

TITLE:

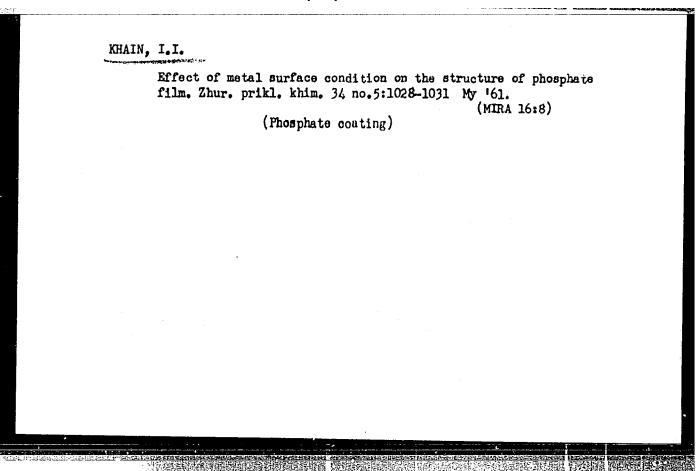
The Effect of the Roughness of the Phosphate Film on the Adhesion of the Varnish Coating. Communication 5

19

PERIODICAL: ,Zhurnal prikladnoy khimii, 1960, Vol. 33, No. 7, pp. 1526-1529

Card 1/1

Composition of phosphate films forming in the presence of nitrates. Zhur.prikl.khim. 33 no.7:1492-1494 J1 '60. (MIRA 13:7) (Phosphates) (Hitrates) (Films(Chemistry))

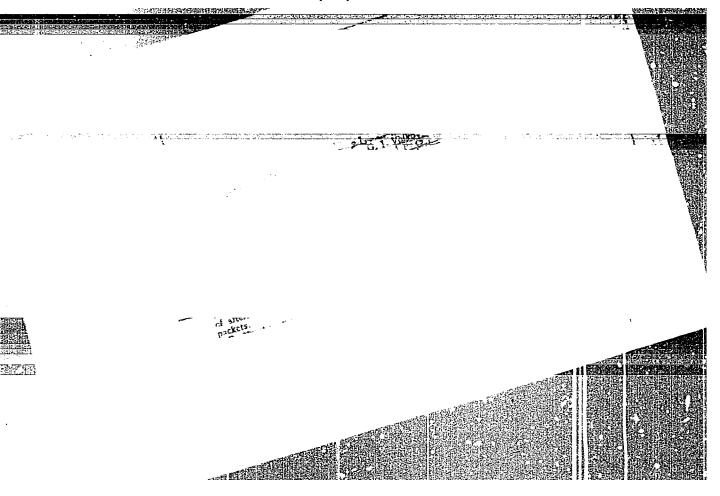


RIMIN, E. I. i TOVIE, E. V.

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Khein, P.G.

USSR/Chemical Technology - Chemical Products and Their

H-6

Application. Electrochemical Manufacturing. Electro-

deposition. Chemical Sources of Electrical Current.

: Referat Zhur - Khimiya, No 1, 1958, 1924

Abs Jour

: Faynshteyn S.Ya., Khain P.G., Simon A.G., Kruglyy S.M. Author

: Basic Trends in the Development of Industrial Chlorine Inst

Title Production Abroad.

: Khim. prom-st', 1957, No 4, 53-59 Orig Pub

: No abstract. Abstract

Card 1/1

FAYNSHTEYN, S.Ya.; KHAIN, P.G.; SIMON, A.G.; KRUGLYY, S.M. KHAIN PG

APPROVED FOR RELEASE: d.09/cpp/2061 chlorine production technology
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KHAIN, P. S.

AUTHORS:

Faynshteyn, S. Ya,, Khain, P. G., Kruglyy, S. M., Simon, A. G.

64-1-19/19

TITLE:

Main Trends in the Development of the Methods of Chlorine Production (Osnovnyye napravleniya razvitiya tekhniki proizvodstva khlora) * see Khimicheskaya Promyshlennost' 1957, Nr 4, P. 245 (5m. Khim. prom., No 4, 245, 1957)

Reworking of Electrolytic Lyes (Percrabotka

elektroliticheskikh shehelokov)

PERIODICAL:

Khimicheskaya Promyshlennost', 1958, N- 1, pp. 57-64 (USSR)

ABSTRACT:

Under the heading "From Abroad" this paper deals exclusively with foreign production- and working methods, and gives some statistical data as well as various commentaries on the advantages and disadvantages resp. of the individual methods. A schematic description with a detailed explanation of an evaporating plant of the firm "Buflovak" (Buffalc, USA) is given as well as a second scheme of a continuous evaporating plant for electrolytic lyes. Several details of the chlorine production plants of the firm "Diamond Alkali Co." are given as well as data on quality and production. Working methods

Card 1/2

CIA-RDP86-00513R000721710003-0" **APPROVED FOR RELEASE: 09/17/2001**

Main Trends in the Development of the Methods of Chlorine 64-1-19/19 Production. See Khimicheskaya Promyshlennost, 1957, Nr 4, p. 245.
Reworking of Electrolytic Lyes

of the purification of caustic soda in the USA are given with a schematic description of a refining plant with liquid ammonia as well as the scheme of a device for the production of anhydrons caustic soda which was also developed in the USA. Details concerning the making firms, operational balances and the capacity of the plants are continuously given in the paper.

There are 4 figures, 1 table, and 36 references, 0 of which are Slavic

AVAILABLE:

Library of Congress

1. Chlorine-Production-Methods

Card 2/2

USCOMM-DC-54825

THE THE PROPERTY AND ADDRESS OF THE PARTY OF ALABYSHEV, A.F.; GRACHEV, K.Ya.; ZARETSKIY, S.A.; LANTRATOV, M.F.; FEDOT'YEV, N.P., prof., retsenzent; KHAIN. P.G., inzh., retsenzent; MORACHEVSKIY, A.G., red.; ERLIKH, Ye.Ya., tekhn.red. [Sodium and potassium; their preparation, properties, and uses] Natrii i kalii; poluchenie, svoistva, primenenie. Pod red. A.F. Alabysheva. Leningrad, Gos.nauchno-tekhn.izd-vo khim.lit-ry. (HIRA 13:3) 1959. 390 p. (Potassium) (Sodium)

5(1)

AUTHORS:

Khain, P. G., Simon, A. G.

SOV/64-59-5-12/28

TITLE:

On New Types of Salt Reservoirs for Chlorine Factories

PERIODICAL:

Khimicheskaya promyshlennost', 1959, Nr 5, pp 410-413 (USSR)

ABSTRACT:

A short description of the two main types of salt reservoirs is given as are used in plants producing chlorine, i.e. underground salt reservoirs (Figs 1-5) and the mechanized, not underground salt reservoirs (Figs 6,7). The salt is solved in water in these modern salt reservoirs and a saturated salt solution is produced. The salt reservoir consists of a double-spaced tank built on reinforced concrete, the length of it being dependent on the amount of salt that has to be storaged. Wagons loaded with salt, are directly emptied in a salt reservoir. The salt is solved in water. Then a centrifugal pump pumps the salt solution into tanks and a recirculation to complete saturation of brine is rendered possible. The bottom of the salt reservoirs consists of vibration concrete M-90 and bitumen BN-111-u. The second mentioned salt reservoir (Fig 3) differs from the first in that that the wagon with salt can be emptied on each side. This special salt reservoir (Fig 4) exhibits two parallel covered

Card 1/3

On New Types of Salt Reservoirs for Chlorine Factories SOV/64-59-5-12/28

rows with 5 spaces each, so that complete saturation may be obtained by the overflowing of the brine. The salt reservoir (Fig 5) is covered too, containing two storage places (25 m long, 10 m wide, 3.5 m deep), which are placed along the rails of the wagon. The pump is mounted between the storage places. The open, not underground salt reservoir (Fig 6) has a grab crane for salt distribution, but exhibits some deficiencies as to discharge possibilities. The salt reservoir of figure 7 overcomes these deficiencies in that it exhibits a bridge cane, the discharge of the salt is made under the crane, and the salt reservoir has two storage places, which fact admits an easier cleaning and overhauling. A diminution of the volume of the underground salt reservoir involves investment expenses increased to the 1.5 -1.6 fold, therefore the types (Figs 3,4) are recommended for smaller salt reservoirs, as they possess tanks for the brine at the same time. The water temperature is important for the solution of salt, because, according to S. S. Shraybman, a concentration rate of 317 - 320 g salt/1 water is obtained at 70 in 6 - 8 minutes, whereas it takes 15 - 20 minutes at 20. The importance of mechanization of the mud transport is pointed to as well as some deficiencies that occur in building salt reservoirs. Final-

Card 2/3

On New Types of Salt Reservoirs for Chlorine Factories SOV/64-59-5-12/28

ly some indications for the building of salt reservoirs are given.
There are 7 figures.

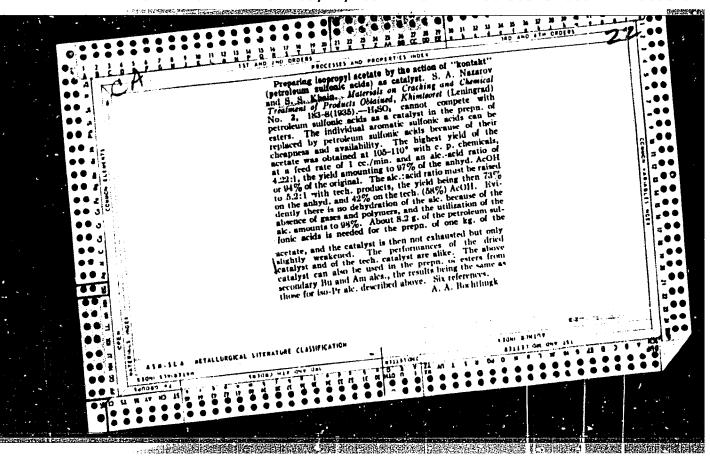
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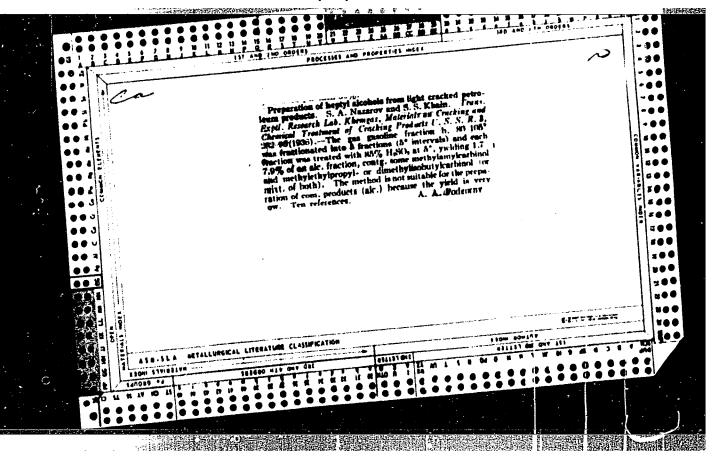
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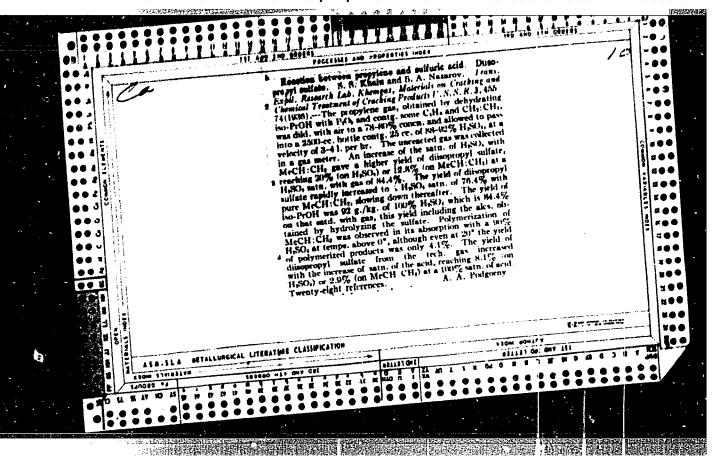
SIMON, A.G.; KHAIN, P.G.; YAKIMENKO, L.M., dcktor tekhn.nauk

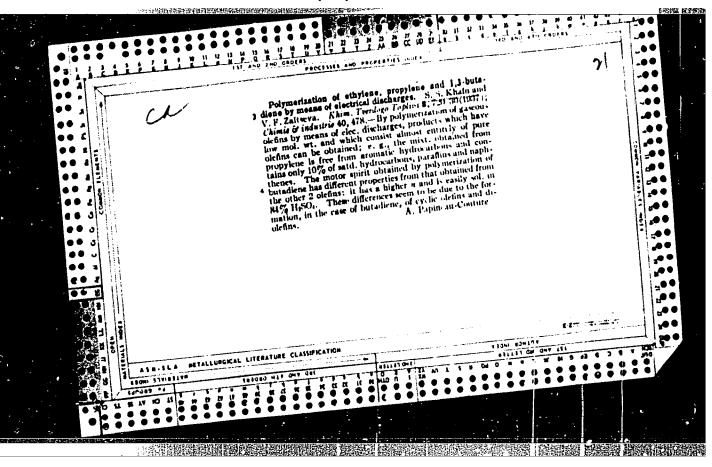
Ways of intensifying the technological processes in the production of chlorine. Zhur.VKHO 6 no.1:16-27 161. (MIRA 14:3)

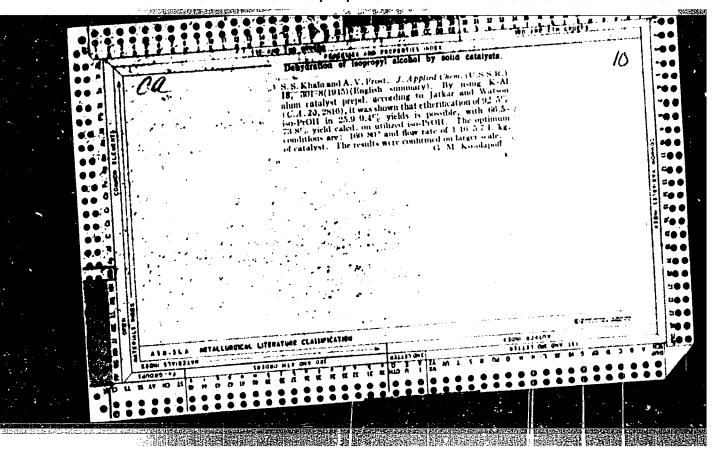
(Chlorine)











VELEV, Vladimir; KHAIN, Vladimir; POIASEK, Adolf

TO THE PROPERTY OF THE PROPERT

Is the centralization of clicking operations economical? Kozarstvi 13 no.2:52-53 F '63.

1. Vyrobni hospodarska jednotka Svit, Gottwaldov.

AGAPEYRV, M.I.; BALATOV, P.S.; ZVEREV, B.P.; IVANOV, I.A.; KHIGLYY, S.M.;

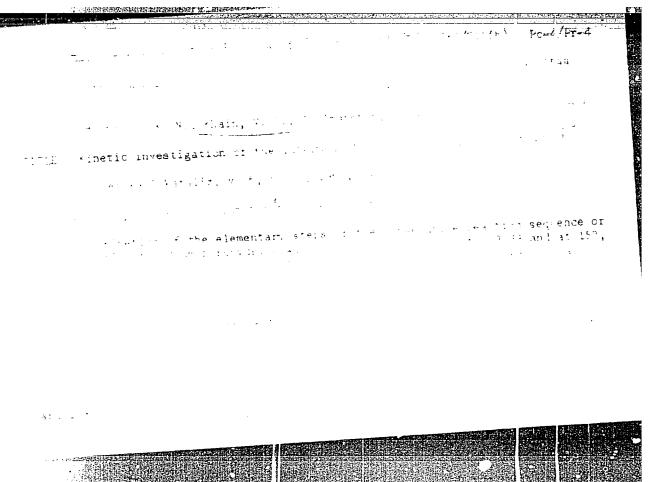
NIMYY, I.M.; FLEYSHMAN, V.G.; KHAIN, V.A.; SHUR, V.A.; EL'SKIY, V.B.

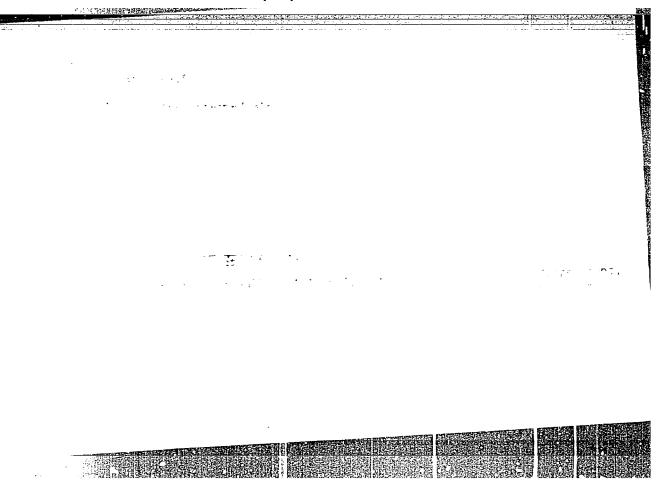
Condensation of a solution in vacuum evaporator installations.

(MIRA 13:6)

Prom.energ. 15 no.4:15-16 Ap '60. (MIRA 13:6)

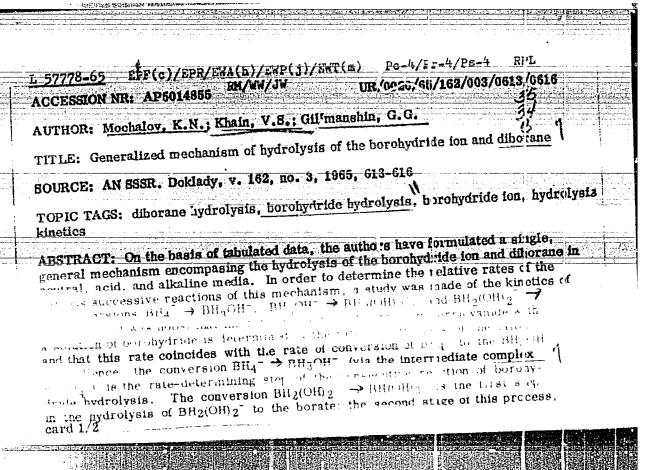
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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721710003-0"

 "中共和国共和国的特殊的
ACCESSION NR: AP5016815 and dependence of the respective half-conversion times (+½) upon temporature (T) and pH are: NalsH ₄ In $K_T = -\frac{6449}{T} + 40.20$; Ig $\tau_{ij} = pH - (1.027T + 0.357)$ NaBH ₄ OH ₃ In $K_T = -\frac{5637}{T} + 37.88$; Ig $\tau_{ij} = pH - (1.027T + 0.357)$ NaBH ₄ (OH) ₄ In $K_T = -\frac{5444}{T} + 37.63$; Ig $\tau_{ij} = pH - (1.024T + 4.00)$. NaBH ₆ (OH) ₆ In $K_T = -\frac{5444}{T} + 37.63$; Ig $\tau_{ij} = pH - (1.024T + 4.00)$. Replacement of scalium by Li, K, or Fe affects seither the overall rate nor the rates of the individual steps of hydrolysis of the respective hydrides and lydrox/hydrides. of the individual steps of hydrolysis of the respective hydrides and lydrox/hydrides.
of the individual steps of hydrerys. Orig. art. has: 1 table, 2 figures, 11 formulas. Orig. art. has: 1 table, 2 figures, 11 formulas. ASSOCIATION: Kazanskiy khimiko-tekhnologicheskiy institut im. S. M. (irova (Kazan Kazan Ka
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MOCHALOV, K.N.; KHAIN, V.S.

Reaction of sodium borohydride with potassium ferricyanide. Zhur. neorg. khim. 10 no.2:532-533 F *65. (MIRA 18:11)

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Mochanism of ferricyanide ion reduction by sodium borohydride.
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1. Kazanskiy khimiko-tekhnologichoskiy institut.

